Bruhath Bengalore Mahanagara Palike YELAHANKA Zone

Name of work: Improvements to roads And drains, dobhighat and surrounding areas at Ananthapura in Ward No 03 Attur

BB Code :- 003-20-000138 — *Est .Cost* *100.00* *Lakhs*

Sl. No	Descriptions	Unit	No	Dimension L	Dimension B	Dimension D	Quantity	Rate in Rs.	Amount in Rs.
1	KSRRB 300-3. Earthwork excavation by manual means for roads, drains & similar works in ordinary soil invoiving , excavated surface leveled & sides neatly dressed , the disposed earth to be levelled neatly after breaking of clods complete as per specification MORTH/ Chapter 3. **(Page No. 143/ Item No. 19.1/ PWD SR 2018-19)**								
	For RCC Drain								
	Prakruthinagar	Cum							
	1st Cross (RHS)		1	60.00	1.10	1.00	66.00		
	1st Cross (LHS)		1	51.00	1.10	1.00	56.10		
	1st A Cross		2	23.00	1.10	1.00	50.60		
	2nd Cross (LHS)		1	153.00	1.10	1.00	168.30		
	2nd Cross (RHS)		1	108.50	1.10	1.00	119.35		
	3rd Cross		2	48.00	1.10	1.00	105.60		
	4th Cross		2	15.50	1.10	1.00	34.10		
	5th Cross (LHS)		1	24.00	1.10	1.00	26.40		
	5th Cross (RHS))		1	19.00	1.10	1.00	20.90		
	Muneshwara Motor's opposite road (LHS)		1	79.00	1.10	1.00	86.90		
	Arivu House Corner to Nanjunda Nilaya		1	170.00	1.10	1.00	187.00		
	1st A Cross		1	183.00	1.10	1.00	201.30		
	1st A Cross Upward Cross Road (RHS)		1	54.00	1.10	1.00	59.40		
	For RCC Culvert		2	6.00	2.00	1.00	24.00		
	For CC Road (Near Dobhighat)		1	65.00	6.40	0.30	124.80		
							1330.75	**207.60**	**276263.70**
	Basic Rate	130.00							
	Loading and Unloading	57.00							
	Lead For Earth 5km	12.80							
	Area Weightage 6%	7.80							
	Data Rate	**207.60**							
2	KSRRB M2100-10. Providing and laying Plain cement concrete of mix 1:3:6 with OPC @ 220kgs, with crushed 40mm and down size graded granite metal coarse aggregates @0.89cum and fine aggregates @ 0.46cum, in foundation mechanically mixed, placed in foundation and compacted by vibration including curing for 14 days including cost of all materials, labour, HOM curing, form works, scaffolding and centering complete as per specifications. **(P.No-222,I No-27.18 pwd 2018-19)**								
	For RCC Drain	Cum							
	Prakruthinagar								
	1st Cross (RHS)		1	60.00	1.10	0.15	9.90		
	1st Cross (LHS)		1	51.00	1.10	0.15	8.42		
	1st A Cross		2	23.00	1.10	0.15	7.59		
	2nd Cross (LHS)		1	153.00	1.10	0.15	25.25		
	2nd Cross (RHS)		1	108.50	1.10	0.15	17.90		
	3rd Cross		2	48.00	1.10	0.15	15.84		

Sl. No	Descriptions	Unit	No	Dimension			Quantity	Rate in Rs.	Amount in Rs.
				L	B	D			
	4th Cross		2	15.50	1.10	0.15	5.12		
	5th Cross (LHS)		1	24.00	1.10	0.15	3.96		
	5th Cross (RHS))		1	19.00	1.10	0.15	3.14		
	Muneshwara Motor's opposite road (LHS)		1	79.00	1.10	0.15	13.04		
	Arivu House Corner to Nanjunda Nilaya		1	170.00	1.10	0.15	28.05		
	1st A Cross		1	183.00	1.10	0.15	30.20		
	1st A Cross Upward Cross Road (RHS)		1	54.00	1.10	0.15	.8.91		
	For RCC Culvert		2	6.00	2.00	0.15	3.60		
	For CC Road (Near		1	65.00	6.40	0.15	62.40		
							243.29	**5509.33**	**1340377.86**
	Basic Rate =	5115.00							
	Deduct Cement cost as per SR - 18-19 Page No.V Sl.No.123 =	-1079.39	Note:- (220*490.63/100)=1079.39						
	Add Cement cost as per Issue	1161.86	Note:- (220*264.06/50)=1161.86						
	Sub Total =	**5197.48**							
	Area Weightage 6% =	311.85							
	Grand Total =	**5509.33**							
3	Providing and laying plain/reinforced cement concrete for side drains **using M20 nominal mix** concrete with OPC at 300 kgs. with 20mm and down size granite metal coarse aggregates at 0.69 cum and fine aggregates at 0.43 cum machine mixed, well compacted for walls and bottom including centering, shuttering, cost of materials, HOM of machinery, curing etc., complete excluding cost of steel as per MORTH specification No. 1500, 1700, 2200. including cost of materials, labour, HOM complete as per specificationsdo- Wall & bottom thickness 15cm (**I No-37.59.2,P No-271 pwd 2018-19)**								
	For RCC Drain	Cum							
	Prakruthinagar								
	Bottom slab								
	1st Cross (RHS)		1	60.00	0.90	0.15	8.10		
	1st Cross (LHS)		1	51.00	0.90	0.15	6.89		
	1st A Cross		2	23.00	0.90	0.15	6.21		
	2nd Cross (LHS)		1	153.00	0.90	0.15	20.66		
	2nd Cross (RHS)		1	108.50	0.90	0.15	14.65		
	3rd Cross		2	48.00	0.90	0.15	12.96		
	4th Cross		2	15.50	0.90	0.15	4.19		
	5th Cross (LHS)		1	24.00	0.90	0.15	3.24		
	5th Cross (RHS))		1	19.00	0.90	0.15	2.57		
	Muneshwara Motor's opposite road (LHS)		1	79.00	0.90	0.15	10.67		
	Arivu House Corner to Nanjunda Nilaya		1	170.00	0.90	0.15	22.95		
	1st A Cross		1	183.00	0.90	0.15	24.71		
	1st A Cross Upward Cross Road (RHS)		1	54.00	0.90	0.15	7.29		
	Side Walls								
	1st Cross (RHS)		2	60.00	0.15	0.75	13.50		
	1st Cross (LHS)		2	51.00	0.15	0.75	11.48		

	Descriptions	Unit	No	Dimension			Quantity	Rate in Rs.	Amount in Rs.
				L	B	D			
	1st A Cross		4	23.00	0.15	0.75	10.35		
	2nd Cross (LHS)		2	153.00	0.15	0.75	34.43		
	2nd Cross (RHS)		2	108.50	0.15	0.75	24.41		
	3rd Cross		4	48.00	0.15	0.75	21.60		
	4th Cross		4	15.50	0.15	0.75	6.98		
	5th Cross (LHS)		2	24.00	0.15	0.75	5.40		
	5th Cross (RHS))		2	19.00	0.15	0.75	4.28		
	Muneshwara Motor's opposite road (LHS)		2	79.00	0.15	0.75	17.78		
	Arivu House Corner to Nanjunda Nilaya		2	170.00	0.15	0.75	38.25		
	1st A Cross		2	183.00	0.15	0.75	41.18		
	1st A Cross Upward Cross Road (RHS)		2	54.00	0.15	0.75	12.15		
							386.82		
	For RCC Culvert								
	Raft		2	6.00	1.50	0.20	3.60		
	Side Walls		4	6.00	0.30	0.60	4.32		
							7.92		
							394.74	**7189.42**	**2837950.94**
	Basic Rate =	6670.00							
	Deduct Cement cost as per SR - 18-19 Page No.V SI.No.123 =	-1471.89	Note:- (300*490.63/100)=1471.89						
	Add Cement cost as per Issue	1584.36	Note:- (300*264.06/50)=1584.36						
	Sub Total =	**6782.47**							
	Area Weightage 6% =	406.95							
	Grand Total =	**7189.42**							
4	KSRRB M2300-14. Providing T.M.T. steel reinforcement for R.C.C. work including straightening, cutting, bending, hooking, placing in position, lapping and/or welding wherever required tying with binding wire and anchoring to the adjoining members wherever necessary complete as per design (laps, hooks and wastage shall not be measured and paid) including cost of materials, labour, HOM complete as per specifications. MORTH Specification No. 1600 & 2200 (**I No-29.29.2,P No-239 PWD SR 2018-19)** (I No. 28.8.2)								
	Considering steel For Drain @ 65kg/Cum	Tonne	1	386.82	0.065		25.14		
	Considering steel For Culvert 90kg/Cum		1	7.92	0.090		0.71	650469	16,82,11283
							25.86	**66712.16**	**1724916.28**
	Issued Rate =	62936.00	61365.00						
	Area Weightage 6% =	3776.16	3681.90						
	Grand Total =	**66712.16**	650469						
5	Providing and fixing Precast RCC cover slabs of 100 mm thick for drain in cement concrete 1:1.5:3 using graded granite jelly 20mm and down size with steel reinforcement and pointing for joints 1:3 cement mortor including form work, lift charges,curing and concrtee finished surface on both sides etc,and complete as per the directions of Enginner in charges.(Data Rate)								
	For RCC Drain Cover Slab	Sqm							
	Prakruthinagar								
	1st Cross (RHS)		1	60.00	0.90		54.00		
	1st Cross (LHS)		1	51.00	0.90		45.90		
	1st A Cross		2	23.00	0.90		41.40		
	2nd Cross (LHS)		1	153.00	0.90		137.70		

	Descriptions	Unit	No	Dimension			Quantity	Rate in Rs.	Amount in Rs.
				L	B	D			
	2nd Cross (RHS)		1	108.50	0.90		97.65		
	3rd Cross		2	48.00	0.90		86.40		
	4th Cross		2	15.50	0.90		27.90		
	5th Cross (LHS)		1	24.00	0.90		21.60		
	5th Cross (RHS))		1	19.00	0.90		17.10		
	Muneshwara Motor's opposite		1	79.00	0.90		71.10		
	Arivu House Corner to		1	170.00	0.90		153.00		
	1st A Cross		1	183.00	0.90		164.70		
	1st A Cross Upward Cross Road		1	54.00	0.90		48.60		
	Missing Slabs		1	26.00	0.90		23.40		
				46.00			990.45	2337.00	2314681.65
	Approved Data Rate =	**2337.00**					1008.45		2356747.65
	Providing and fixing Precast RCC slab of 250mm thick for Culverts made of Plain/Reinforced Cement Concrete design mix M25 with OPC@340kgs,with 20mm and down size graded granite metal coarse aggregates @0.70cum and fine aggregates@0.47cum,with superplasticizer@3lts confirming to 189103-1999 Reaffirmed-2008,Open Foundation complete as per Drawing and Technical Specification including cost of all materials, labour,HOM curing,form works,scaffolding and centering complete as per specifications and pointing for ljoints 1:3 cement mortar including form work,lift charges,curing and concrete finished surfaces on both sides etc,complete and as per the directions of Engineer in-Charge. **(Approved Data Rate)**									
	For Culvert Cover Slabs	Sqm	2	6.00	1.50		18.00		
							18.00	**5418.00**	**97524.00**
	Approved Data Rate =	**5418.00**							
7	KSRRB 300-Compaction KSRRB 300-58. Compaction of original ground with maximum of 6 passes of 8 to 10 tonnes power roller including filling in depression occuring during rolling including cost of all labour, HOM of machinery complete as per specifications.**(P.No. 147, I.No. 19.64 PWD SR 2018-19)**								
	For CC Road (Near Dobhighat)	**Sqm**	1	65.00	6.40		416.00		
							416.00	**6.36**	**2645.76**
	Basic Rate	6.00							
	Area Weightage 6%	0.36							
	Data Rate	**6.36**							
8	Cement concrete pavement.Construction of un-reinforced plain cement concrete pavement, thickness as per design, over a prepared sub base with OPC cement or any other type as per clause 1051.2.2 design mix ~~M20~~/M30 , with 25mm and down size graded granite metal coarse aggregates and fine aggregtes , with superplastisiser @3lts confirming to IS9103-1999 Reaffirmed-2008 , mixed in a concrete mixer of not less than 0.6 cum capacity and appropriate weigh batcher as per approved mix design, laid in approved fixed side form work (steel channel, laying and fixing of 125 micron thick polythene film, wedges, steel plates including levelling the form work as per drawing). Spreading the concrete with shovels, rackers compacted using needle, screed and plate vibrator and finished in a continuous operation including provision of contraction, expansion, construction and longitudinal joints including groove cutting charges, joint filler, separation membrane, selant primer, joint sealant, admixtures as approved, curing compound, finishing to lines and grades as per drawing complete as per specifications. - M30 (at 360Kg per cum coarse aggregate @ 0.69cum and fine aggregate @ 0.46cum) **(Page No. 175.tem No.22.6.1,PW,P & IWTD SR 2018-19)**									
	For CC Road (Near Dobhighat)	**Cum**	1	65.00	6.40	0.15	62.40		
							62.40	**5354.02**	**334090.96**

Descriptions	Unit	No	Dimension			Quantity	Rate in Rs.	Amount in Rs.
			L	B	D			
Basic Rate	4916.00							
Deduct Cement cost as per SR - 18-19 Page No.V Sl.No.123	-1766.27	Note:- (360*490.63/100)=1766.27						
Add Cement cost as per Issue	1901.23	Note:- (360*264.06/50)=1901.23						
Sub Total	**5050.96**							
Area Weightage 6%	303.06							
Grand Total	**5354.02**							8927460.03
							Total Constrution cost	8928451.15
						1071295.20	**GST Charges 12%**	1071414.14
						9998755.23	**Sub Total**	9999865.29
						1244.77	**Miscellaneous & Rounding Off**	134.71
							Grand Total	10000000.00
Rupees One Crore Only								

rtificate:-

The work spot has been inspected by me and the work is found to be necessary.

The estimate is prepared as per PW, P&IWTD, S R Bangalore circle for the year 2018-19 & 02.07.2020, Issued Rate, proved Data Rate

The Provision made in the estimate are quite neccesary and adequate

The are comes with in the BBMP Limits

Assistant Engineer
Ward No.03
BBMP

Assistant Executive Engineer
Yelahanka Satellite Town Sub division,
BBMP

Executive Engineer
Yelahanka Division
BBMP

Administrative Sanction for Rs. 100.00 lakhs
One hundred lakhs only
is accorded under head P-2178
Registered as CE No. ..... Subject to conditions contained in enclosed memo
No. EE/YNK/AS/36/20-21 Dt. 28/8/2020

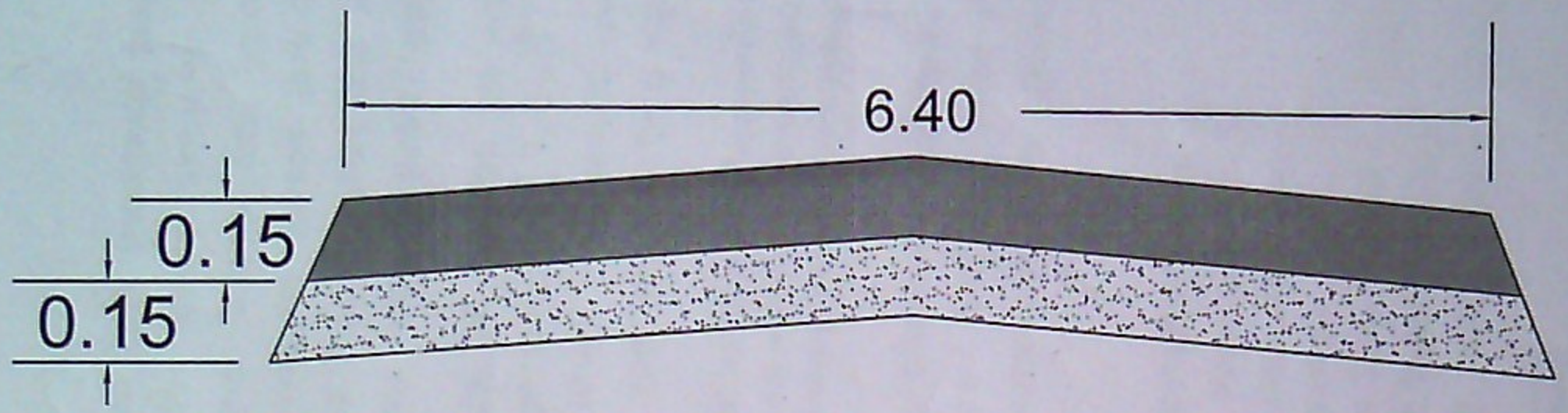
Executive Engineer

Technically sanctioned for Rs. 100,00,000/-
Rs in Words HUNDRED LAKH ONLY
Under P 2178
Job Code No 003-20-000138
Registered as SE(Y)/TS/ 32 / 2021
to conditions contained in enclosed memo
No. 32 / 20-21 Dated: 21-9-2020

21-9-2020
SE(Yelahanka)

EE/DE TA

Name of Work:- Improvements to Roads and Drains, Dobhighat and Surrounding Areas at Ananthapura in Ward No.03 Atturu.



Cross Section of CC Road

Index:-

CC Pavement

1:3:6 (P.C.C)

Asst. Engineer
Ward No.03

Asst. Executive Engineer
Yelahanka Sub Division

All Dimensions are in Meters